

Manufacturer: American Autoclave
Type/Model: R-30-40-150-650-ELE
Working Envelope: 24" Diameter x 40" Depth
Operating Pressure: 150 Psi
Operating Temperature: 650°F/343°C

- 10°F per minute ramp rate based on a 100 lb steel and composite load
- Vacuum Pump – 10CFM / 28" Hg (2 Ports)



RFAL has the capability of processing a variety of thermosetting composites for material testing with the use of the Autoclave. An autoclave applies a controlled schedule of pressure and heat to fit the manufacturing requirements for a variety of composite materials. The internal chamber uses inert nitrogen gas feed by a liquid-gas converting nitrogen dewar. A convective water cooled heat exchanger coil, inside the autoclave vessel, allows the chamber to trim the temperature during thermal ramps and dwells. RFAL has the capability to adapt tooling and cure profiles for varying geometries/thicknesses.

Examples:

- E-glass/epoxy 250°F (max temp) 90Psi (modified cure for thick lay-ups)
- IM7/epoxy 350°F (max temp) 90psi

